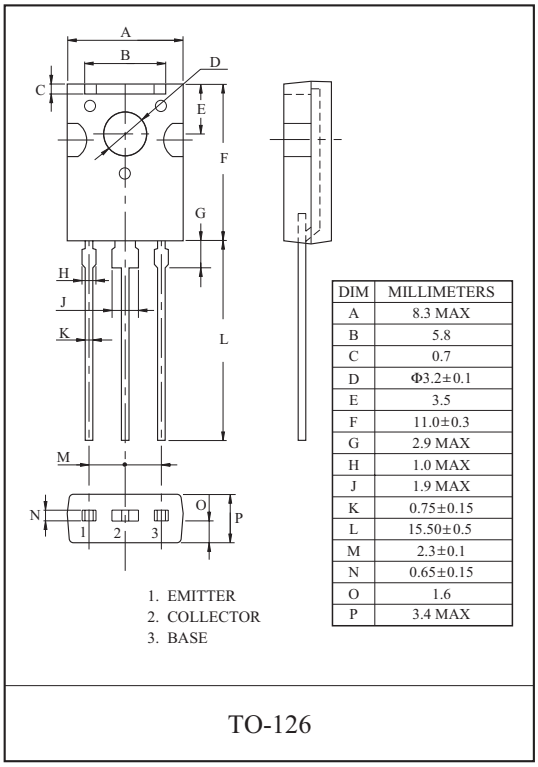
LOW COLLECTOR SATURATION VOLTAGE
LARGE CURRENT

FEATURES

- High Power Dissipation : P_C=1.5W(Ta=25℃)
- Complementary to KTD1691.



DIM	MILLIMETERS
A	8.3 MAX
B	5.8
C	0.7
D	Φ3.2±0.1
E	3.5
F	11.0±0.3
G	2.9 MAX
H	1.0 MAX
J	1.9 MAX
K	0.75±0.15
L	15.50±0.5
M	2.3±0.1
N	0.65±0.15
O	1.6
P	3.4 MAX

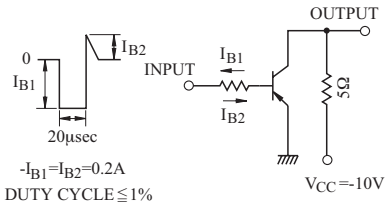
TO-126

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-60	V
Emitter-Base Voltage		V_{EBO}	-7	V
Collector Current	DC	I_C	-5	A
	Pulse *	I_{CP}	-8	
Base Current		I_B	-1	A
Collector Power Dissipation	Ta=25℃	P_C	1.5	W
	Tc=25℃		20	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 150	℃

* PW≤10ms, Duty Cycle≤50%

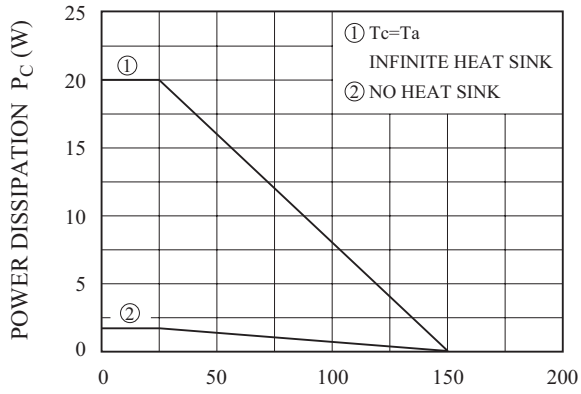
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB}=-50V, I_E=0	-	-	-10	μA
Emitter Cut-off Current		I_{EBO}	V_{EB}=-7V, I_C=0	-	-	-10	μA
DC Current Gain *		h_{FE} 1	V_{CE}=-1V, I_C=-0.1A	60	-	-	
		h_{FE}2 (Note)	V_{CE}=-1V, I_C=-2A	160	-	400	
		h_{FE} 3	V_{CE}=-2V, I_C=-5A	50	-	-	
Collector-Emitter Saturation Voltage *		$V_{CE(sat)}$	I_C=-2A, I_B=-0.2A	-	-0.14	-0.3	V
Base-Emitter Saturation Voltage *		$V_{BE(sat)}$	I_C=-2A, I_B=-0.2A	-	-0.9	-1.2	V
Switching Time	Turn On Time	t_{on}		-	0.15	1	μS
	Storage Time	t_{stg}		-	0.78	2.5	
	Fall Time	t_f		-	0.18	1	

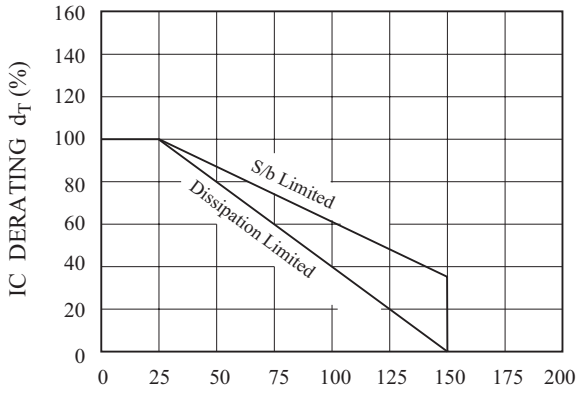
* Pulse test : PW≤350 μS, Duty Cycle≤2% Pulse

Note) h_{FE}(2) Classification : O:160 320, Y:200 400.

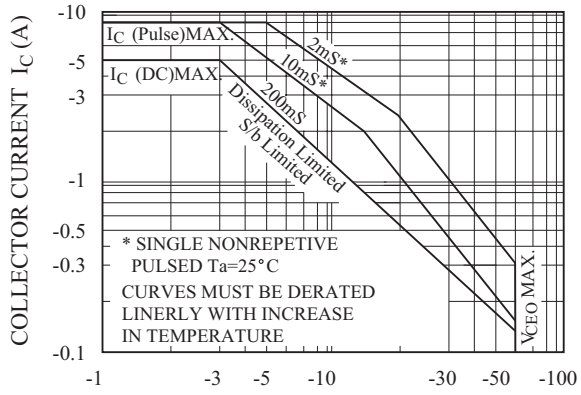
P_C - T_a



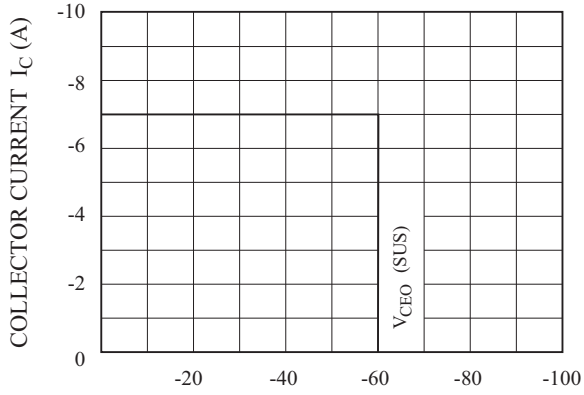
d_T - T_C



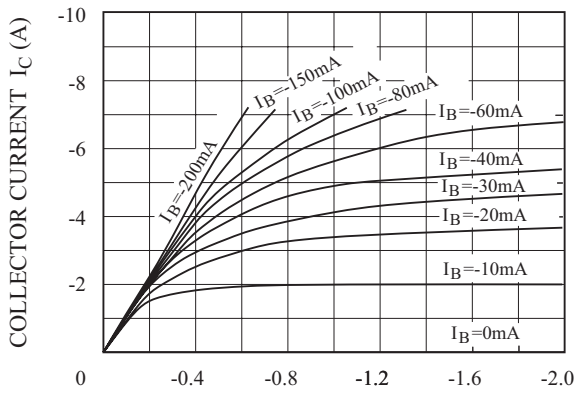
SAFE OPERATING AREA



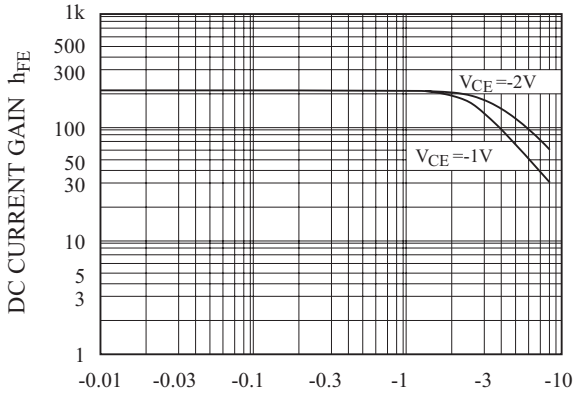
REVERSE BIAS
SAFE OPERATING AREA



I_C - V_{CE}



h_{FE} - I_C



$V_{BE(sat)}$, $V_{CE(sat)}$ - I_C